

CARRIER AIR CONDITIONING BRIEFING

SEPTEMBER 3, 1992

- Carrier A.C. Site is located in Collierville, TN approximately 20 miles east of Memphis.
- Collierville has been a rural town and over the last 25 years has become an industrial town with a population of approximately 13,000.
- Carrier A.C. is an air conditioner and heater manufacturing facility and is the area's largest employer.
- TCE was the primary solvent used in degreasing and cleaning manufacturing parts.
- Carrier was listed on the NPL in 1988 (final in 1990) because TCE was detected in one of the City's municipal wells.
- The RI began in December 1989 and was completed in November 1991.
- Carrier's consultant, EnSafe, conducted the RI/FS.
- Tennessee Department of Environment and Conservation (TDEC) has been cooperative throughout RI/FS.
- TCE and lead in groundwater are the driving risks at the Site.
- RI conclusions:
 - Prevent ingestion of contaminated groundwater;
 - Prevent further contamination of the Memphis Sands;
 - Restore the Memphis Sands to drinking water conditions; and
 - Prevent migration of contaminants from soils.
- Technologies considered:
 - Groundwater Treatment
 - Ultraviolet Light-Enhanced Oxidation
 - Air Stripping
 - Soil Treatment
 - Low Temperature Thermal Desorption (SVE)
 - Soil Vapor Extraction (SVE)



Air Treatment
Carbon Adsorption
Thermal Treatment
Ultraviolet Photolysis

Groundwater Discharge
POTW
Municipal Water Supply
Surface Water
Reinjection

- Selected Alternative includes:

Air stripping at Water Plant 2 and with supplemental wells;

Soil Vapor Extraction at the Lagoon Area and Main Plant spill areas;

Air treatment with carbon adsorption, thermal treatment, or ultraviolet photolysis; and

Groundwater discharge to the Municipal Water Supply, Surface Water, POTW or Reinjection.

- Cost \$5.7 to \$7.5 million
- Time to remediate soils: 3-5 years
Time to remediate groundwater: < 30 years
- State concurrence has been received.
- Community interest has been minimal.
- We fully expect Carrier to implement the remedy.

Carrier Air Conditioning Company Superfund Site Location Map Collierville, Tennessee

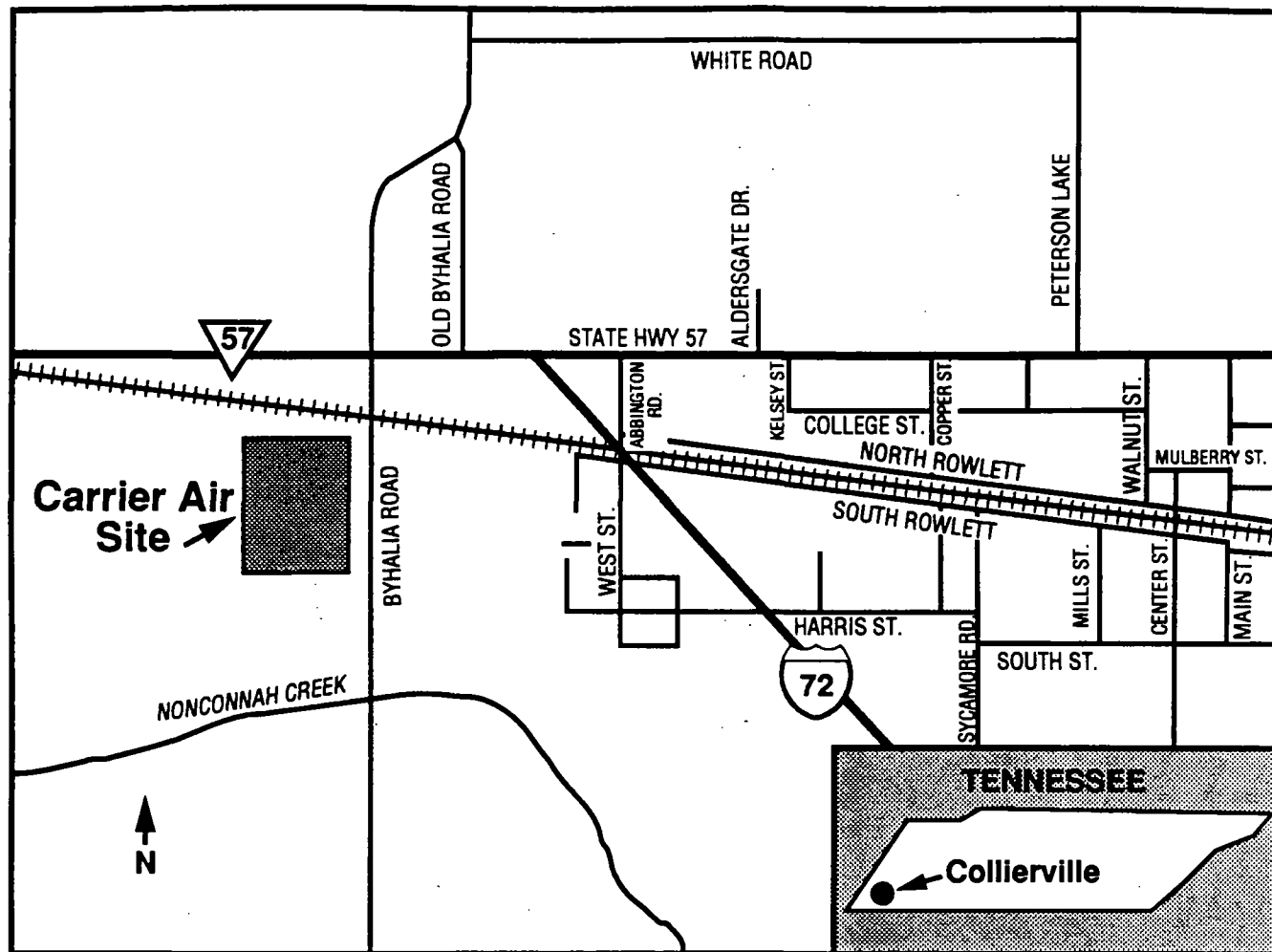
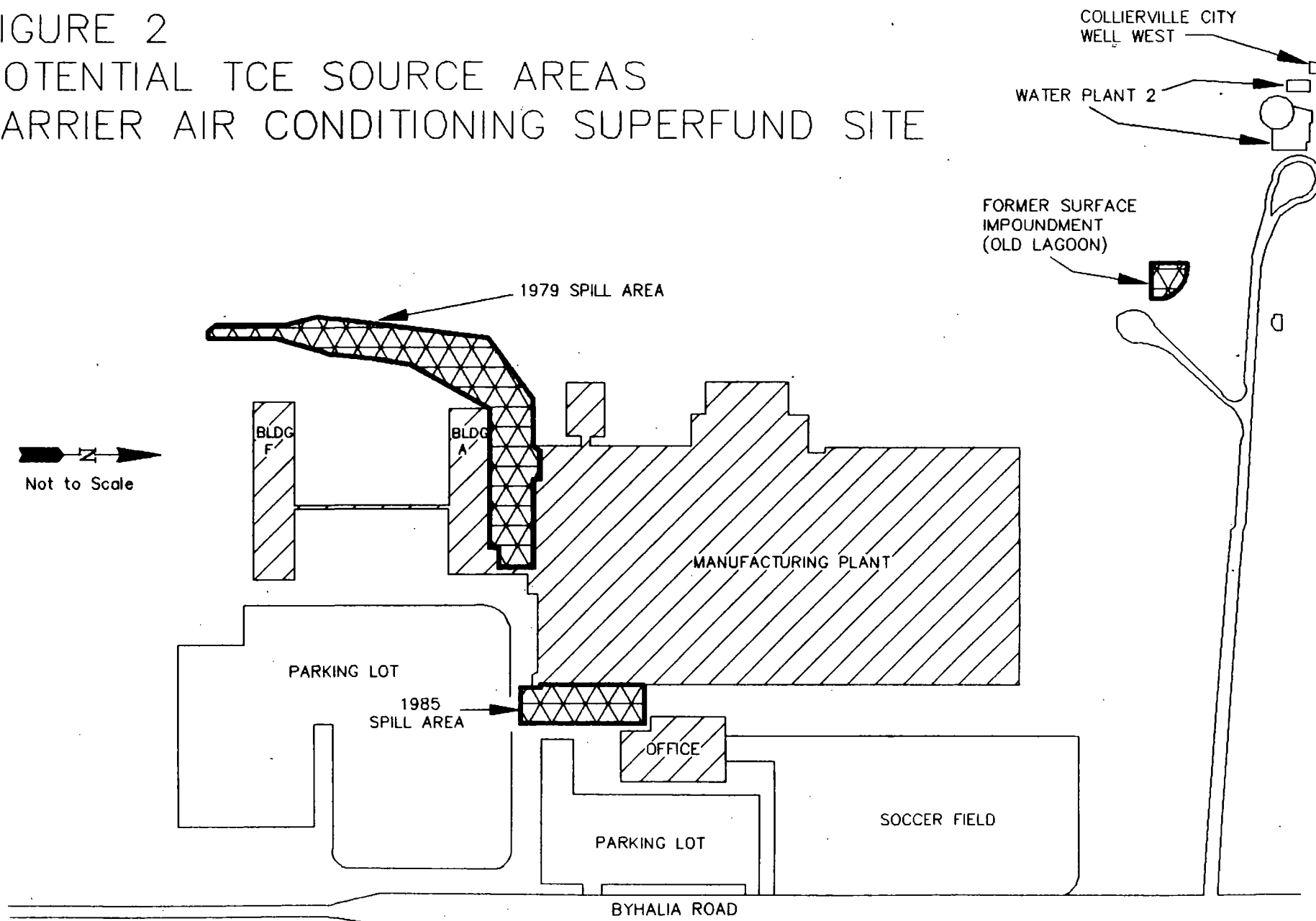


FIGURE 2
POTENTIAL TCE SOURCE AREAS
CARRIER AIR CONDITIONING SUPERFUND SITE



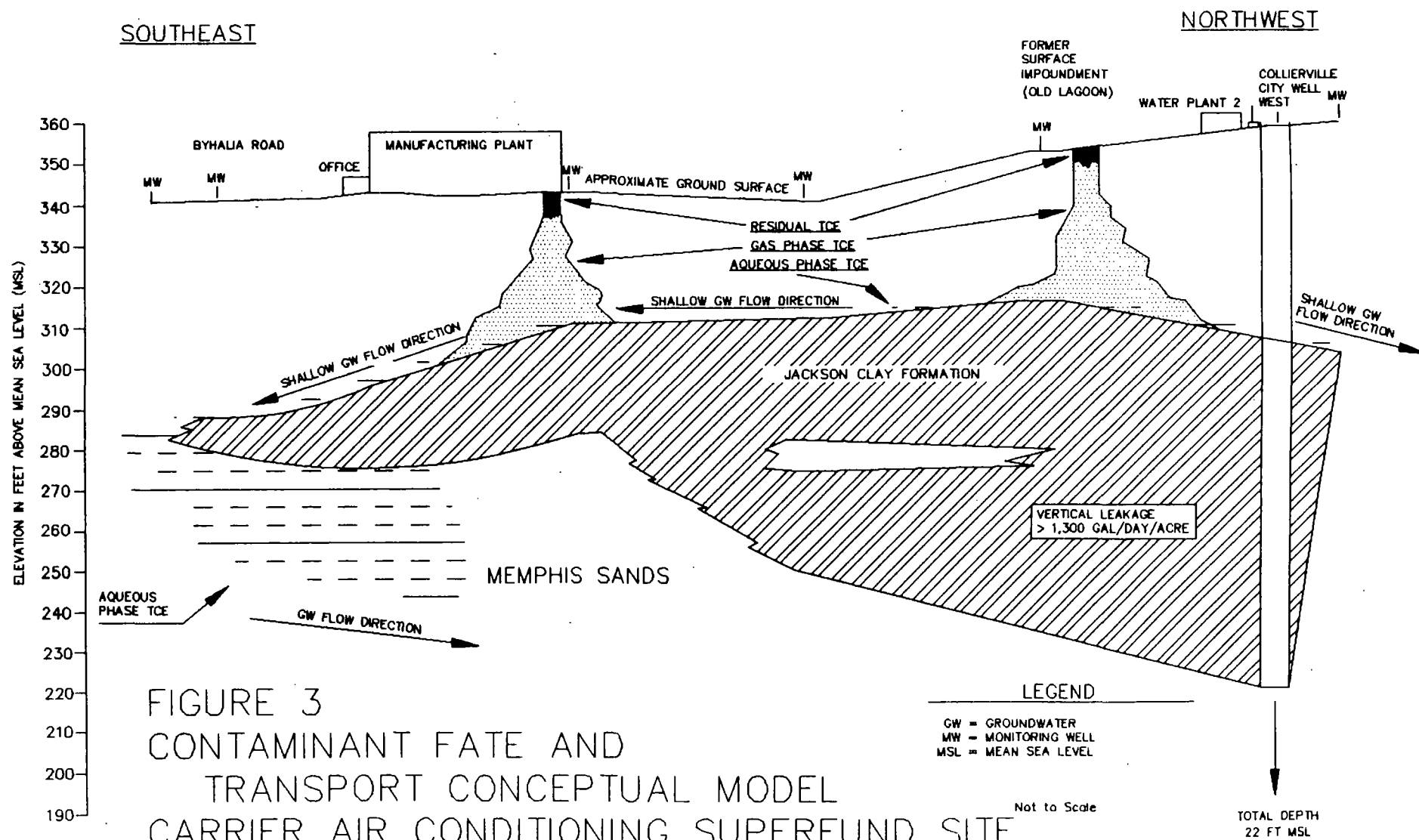


FIGURE 3
CONTAMINANT FATE AND
TRANSPORT CONCEPTUAL MODEL
CARRIER AIR CONDITIONING SUPERFUND SITE